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(54) Sheets with adhesive system for electronic printing

(57) Sheets with adhesive system for electronic printing comprising a card-like special paper sheet (1) with a smooth face and a siliconized back, where there is applied a support paper sheet (2) of which the contact face (3) is adhesive, having two adjacent longitudinal areas (4) and (5) delimited by half-cuts (6) and subdivided by transversal half-cuts (7), defining smaller areas which specify the visit cards (8) to be printed, having limited by half-cuts (11) areas (10) of the support paper which correspond to the areas (4) and (5), with smaller width than these, resulting in two thin side "strips" (12) superposed to the distal borders of the visit cards, having on the upper extremity of the areas (10) one "tab" (13) used to remove those areas of the support paper and consequently to release the visit cards after printing.

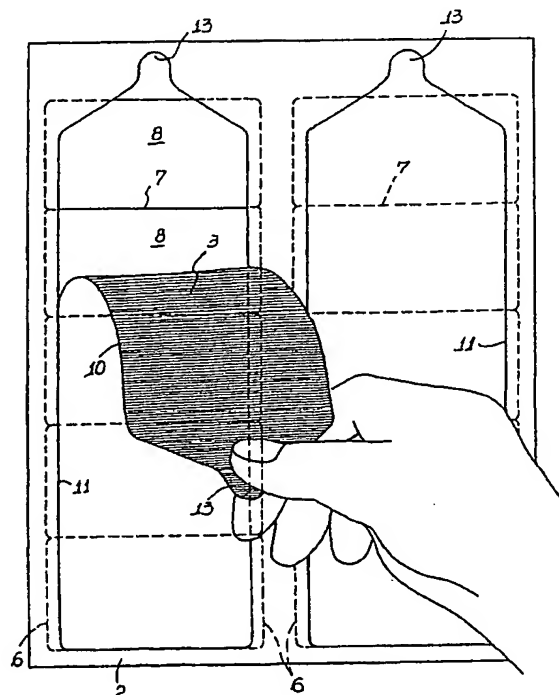


FIG. 3

## Description

[0001] The present invention relates to sheets with adhesive system for electronic printing, which allow the user to print his own visit cards with quality and perfection, consisting of resistant special paper sheets each having a series of cards separated by peripheral half-cuts and fixed by means of a support paper applied on the back of the sheet, this support paper being removed after printing the visit cards on laser or ink jet printers, copiers, and digital printing machines, enabling said cards to be simply and easily released with no barbs, and thereby appearing with a fine and perfect finishing.

[0002] There are in the market several kinds of sheets for visit cards adapted to be electronically printed. However, the well-known sheets for visit cards are not so good as desirable and have some inconveniences that become upsets to the user.

[0003] For example: there is a kind of sheets for visit cards on which the cards are fixed by way of narrow adhesive strips which only fix on the back the longitudinal borders of the cards and leave the distal borders free. For this reason, the cards are usually released just on the simple handling of them and mainly on the printing of them when the sheets are subjected to a usual arching on passing by the printing machine, resulting in many problems and losses, sometimes of big values.

[0004] Other well-known kind of visit cards is that composed by only one element, or just one sheet, and the cards are limited by micro-cuts.

[0005] The object proposed in the present invention comes to solve all the problems and inconveniences of the sheets for common visit cards, offering a product which ensures the integrity of the visit cards from the handling to the end of the printing and then the release of same, and the cards just will be released after pulling out the support paper which fix them firmly. And for the fact that they are totally fixed, i.e. with all the area contacting the support paper, it is possible for them to follow all natural deformations which may occur when passing by printing machines, ensuring by this reason a calm and perfect printing.

[0006] The visit cards of the present system are presented with their corners slightly curved, in a manner to offer other advantages, having in mind that the common visit cards, with straight corners, usually have their points folded when handling, making, sometimes, difficult to introduce the same in card boxes. And when being presented to other people, it is sure they will cause no good impression.

[0007] Another advantage of the system of the invention is that, for releasing the visit cards after printing, one just have to pull the support paper from the cards, in opposition to the conventional system on which the cards are pulled from the support paper. In this way, in the first case the visit cards are presented totally flat, in opposition to the conventional system that presents them curved.

[0008] This invention provides a variant of the above mentioned adhesive system for electronic printing, which consists of a laminate of a card-like special paper with auto-adhesive system, to be used in any process of printing, electronic, digital, manual, mechanic, laser or ink jet, plotters, copiers, etc., for general use and to obtain patterns, labels, figures, symbols, emblems, models and others in any format.

[0009] The above mentioned laminate is different from the well known ones in the market which are not so good as desirable and have some inconveniences in relation to their applicability.

[0010] The conventional laminates have applied on its back an adhesive product which is protected by one support sheet removable when in use and after printing. Such laminate has its back tacky, or auto-adherent, and can be used just for one purpose, i.e. as auto-adhesive element.

[0011] The laminate of the present invention, in opposition to the conventional laminates, has a smooth face and its back is siliconized, where there is applied a support paper sheet of which the contact face is adhesive and allows that the two sheets remain naturally fixed, and, after removing the support paper, the back face of the laminate will be free of any kind of tackiness, and can be used for the most various purposes.

[0012] In order to have a clear image of the above mentioned sheets with adhesive system for electronic printing and of the contemplated variant, enclosed are the adjoined illustrative drawings to which reference is made so as to better show the following detailed description.

[0013] Figure 1: Represents a frontal plan view of a sheet for visit cards as proposed in the present invention.

[0014] Figure 2: Represents a back plan view of the referred sheet for visit cards.

[0015] Figure 3: Represents the way to remove the support paper for release of the visit cards after printing.

[0016] Figure 4: Represents the way to remove the visit cards after release of the support paper, with a simple finger touch.

[0017] Figure 5: Represents, by way of example, the laminate with auto-adhesive system in connection with the variant of the present invention, showing the support paper being removed.

[0018] As per figures 1, 2, 3 and 4, and in their particulars, the sheets with adhesive system for electronic printing of the present invention are characterized essentially by comprising a card-like special paper sheet (1), with a smooth face and a siliconized back, where there is applied a support paper sheet (2) of which the contact face (3) is adhesive and allows that the two sheets remain fixed between them.

[0019] The card-like special paper sheet (1) has two longitudinal adjacent areas (4) and (5) delimited by half-cuts (6).

[0020] Those two areas (4) and (5) are in turn subdi-

vided by transversal half-cuts (7), determining smaller areas which designate the visit cards (8) to be printed.

[0021] The junction points of the transversal half-cuts (7) with the longitudinal half-cuts (6), which correspond to the corners of the visit cards, are slightly curved.

[0022] The areas (10) of the support paper (2) concordant with the areas (4) and (5) of the card-like special paper sheet (1) are defined by half-cuts (11), the width of those areas (10) of the support paper being smaller than the width of the areas (4) and (5) of the card-like special paper, resulting consequently in two thin side "strips" (12) on which the distal borders of the visit cards are disposed. The upper extremity of the areas (10) is presented in a conic shape, forming at the top a "tab" (13).

[0023] After the model of the visit card to be electronically printed is established, the laser or ink jet printer, or copiers, or digital printer, are fed with the sheets for visit cards, proceeding to the printing.

[0024] To release the visit cards after printing, the area (10) is removed from the corresponding support paper by pulling the "tab" (13) as shown in figure 3. The conic part of the upper extremity of the area (10) has as its finality to avoid that the first visit card be detached when removing the support paper. Once the area (10) of the support paper is removed, the visit cards are fixed only by their side borders in the strips (12), from where they will be easily released by a simple finger touch, as shown in figure 4. The visit cards (8) will be released naturally, without curving and without leaving any barbs, namely with perfection, quality and fine finishing.

[0025] Commercially, the sheets with adhesive system for electronic printing are arranged in a determined number of units in a plastic wrapping which is then packed in a appropriated package, preferable with windows for better visualization of the product.

[0026] Such systems of sheets with adhesive for electronic printing can also be applied for other purposes, besides visit cards, for printing in electronic printers, digital printers and plotters, for obtaining patterns, labels, figures, symbols, emblems, models and others in any format.

[0027] According to figure 5, which illustrates the variant, the laminate with auto-adhesive system is characterized by comprising a card-like special paper sheet (14), with a smooth face and a siliconized back, where there is applied a support paper sheet (15) of which the contact face (16) is adhesive and allows that the two sheets be fixed between them.

[0028] When removing the support paper sheet, after printing, the back of the laminate appears free of any tacky substance, totally smooth, for various uses.

[0029] In this way the above mentioned sheets with adhesive system for electronic printing and the variant (laminate with auto-adhesive system) totally attain the proposed objectives, performing in an easy and efficient way the functions for which they were made, giving a series of advantages inherent to their applicability, with

own innovative characteristics and with fundamental requisites of novelty.

## 5 Claims

1. Sheets with adhesive system for electronic printing, characterized by comprising a card-like special paper sheet (1), with a smooth face and a siliconized back, where there is applied a support paper sheet (2) of which the contact face (3) is adhesive and allows that the two sheets remain fixed between them; and by having on the card-like special paper sheet (1) two adjacent longitudinal areas (4) and (5), delimited by half-cuts (6), and which are subdivided by transversal half-cuts (7), defining smaller areas which specify the visit cards (8) to be printed; and by the junction points of the transversal half-cuts (7) with the longitudinal half-cuts (6), corresponding to the corners of the visit cards, being slightly curved; and by the areas (10) of the support paper (2) which correspond to the areas (4) and (5) of the card-like special paper sheet (1), being delimited by half-cuts (11), the width of those areas (10) of the support paper being smaller than the width of the areas (4) and (5) of the card-like special paper, resulting as a consequence in two thin side "strips" (12) on which the distal borders of the visit cards are arranged; and by the upper extremity of the areas (10) being presented in a conic shape, forming a "tab" (13) in the top used to remove those areas of the support paper and consequently to release the printed visit cards.
2. Sheets with adhesive system for electronic printing according to claim 1, characterized in that a variant comprises a laminate with auto-adhesive system, which consists of a card-like special paper sheet (14), with a smooth face and a siliconized back, where there is applied a support paper sheet (15) of which the contact face (16) is adhesive and allows that the two sheets remain fixed between them, so that when the support paper sheet is removed, after printing, the back of the laminate appears free of any tacky substance, totally smooth.

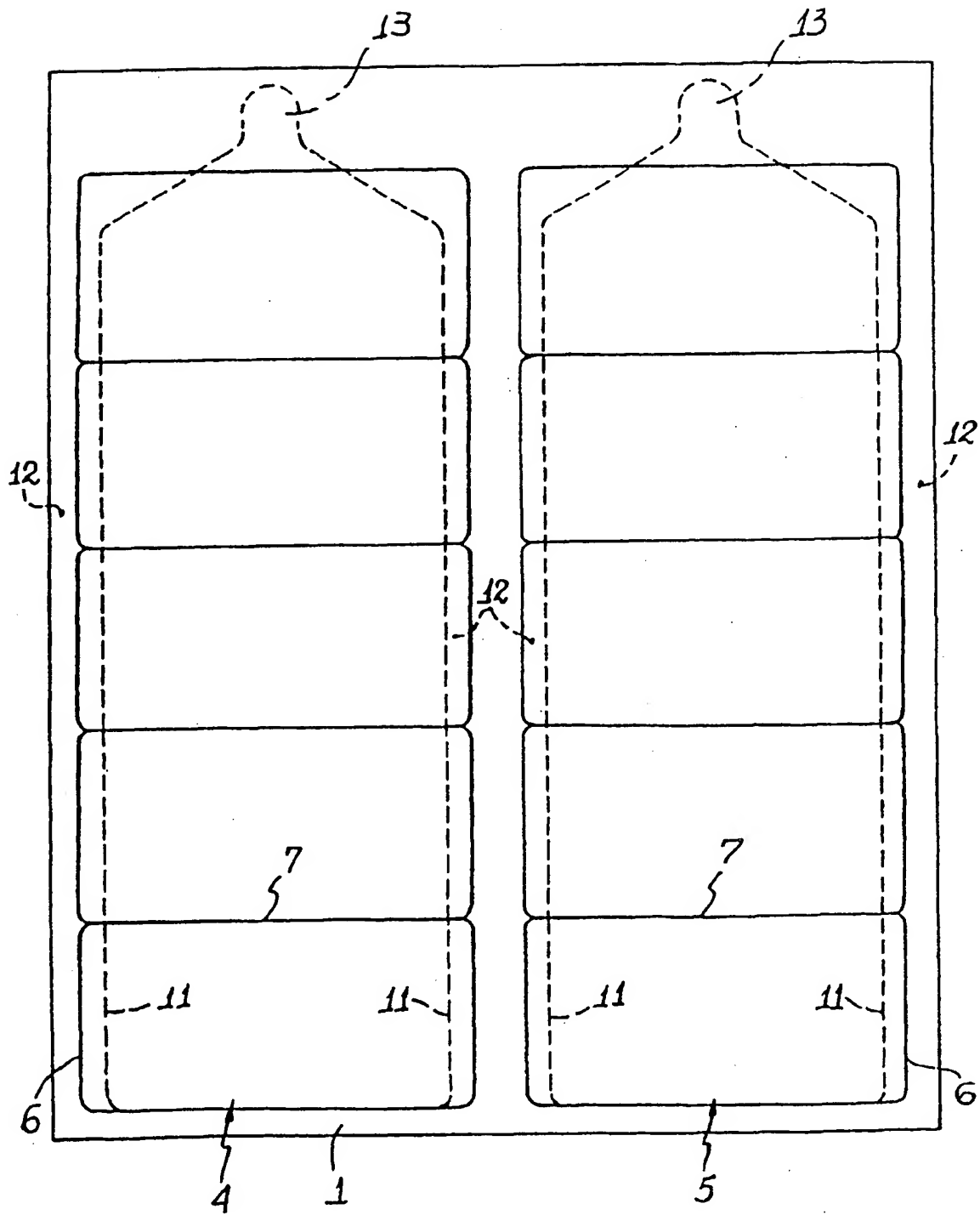


FIG. 1

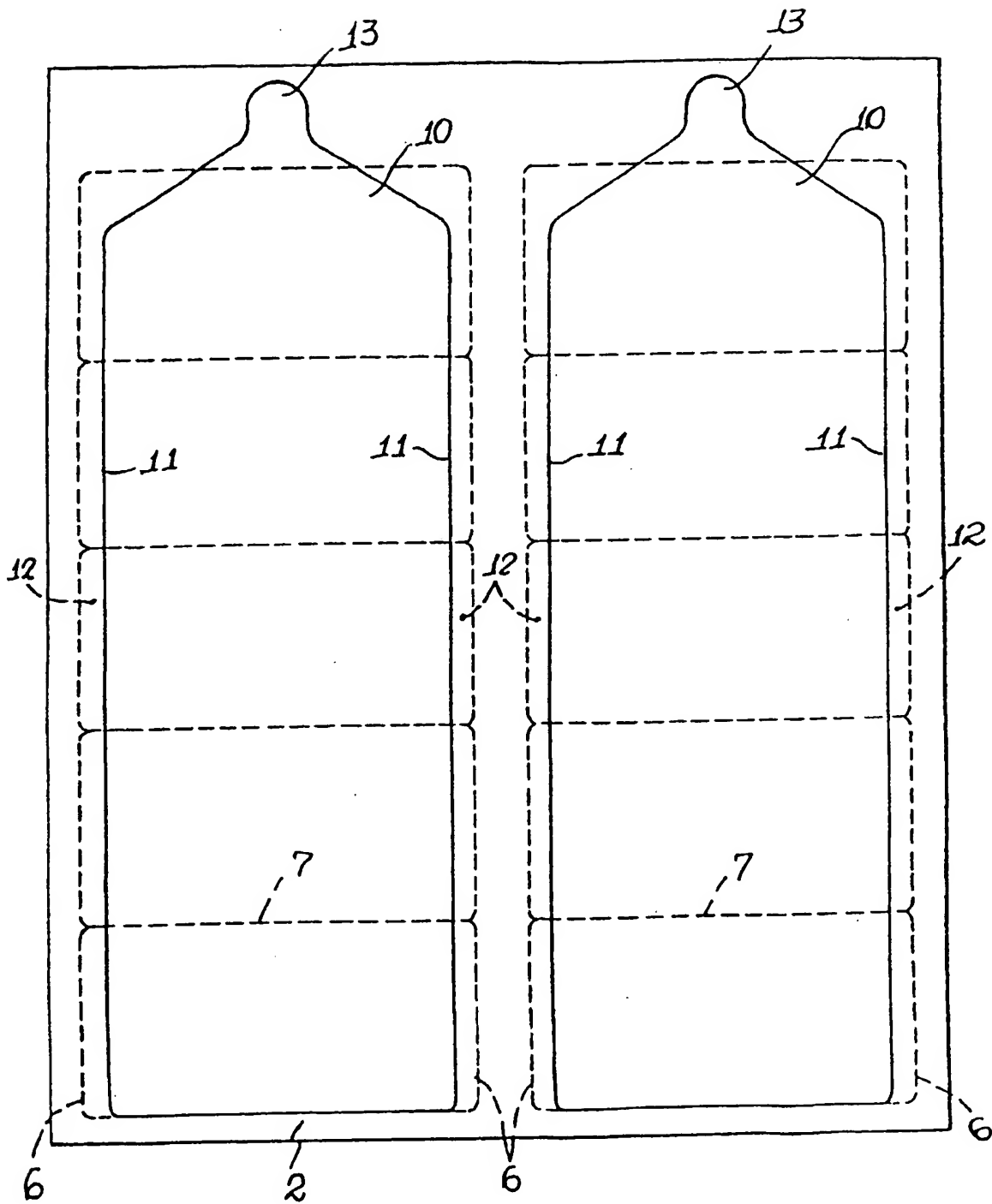


FIG. 2

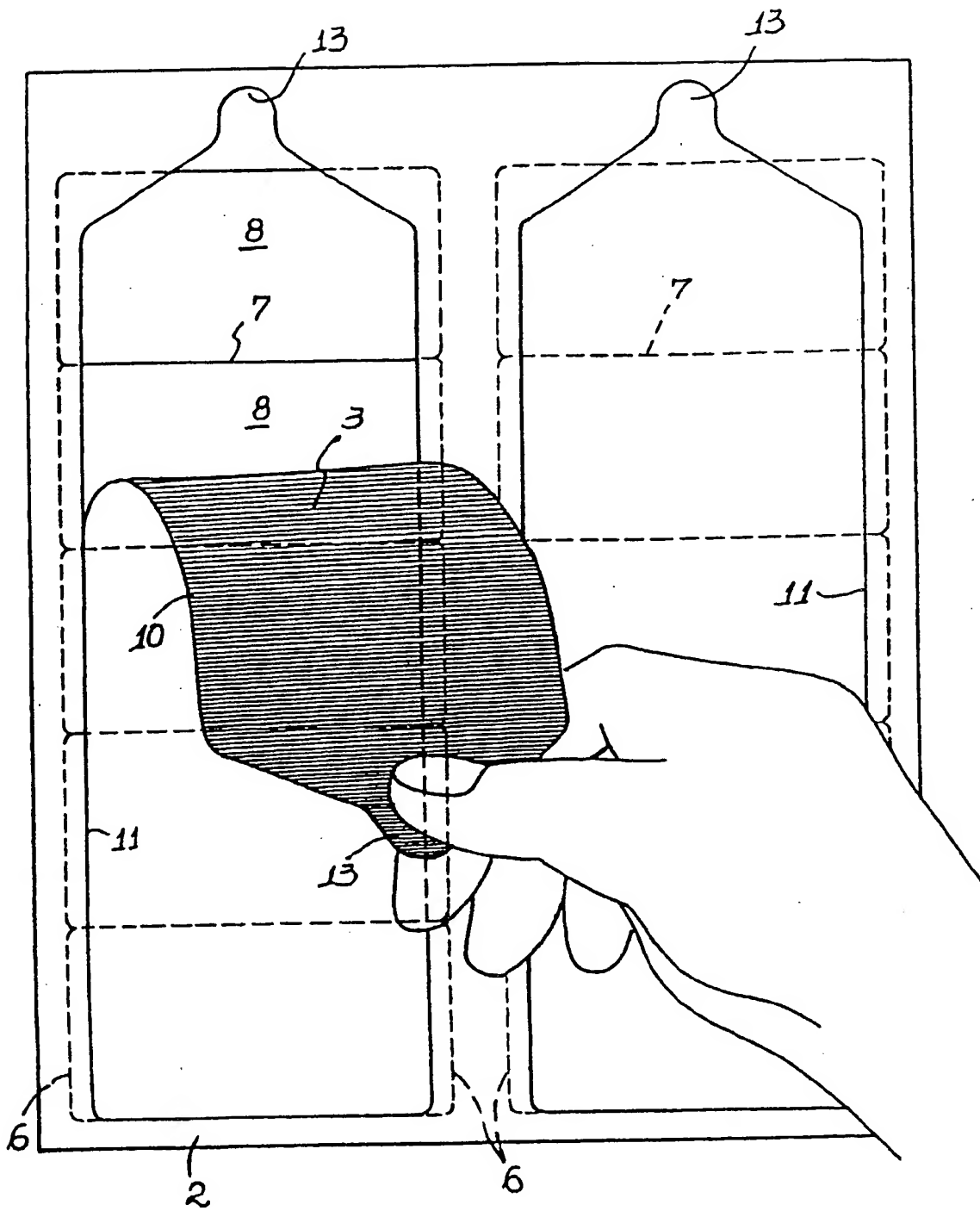


FIG. 3



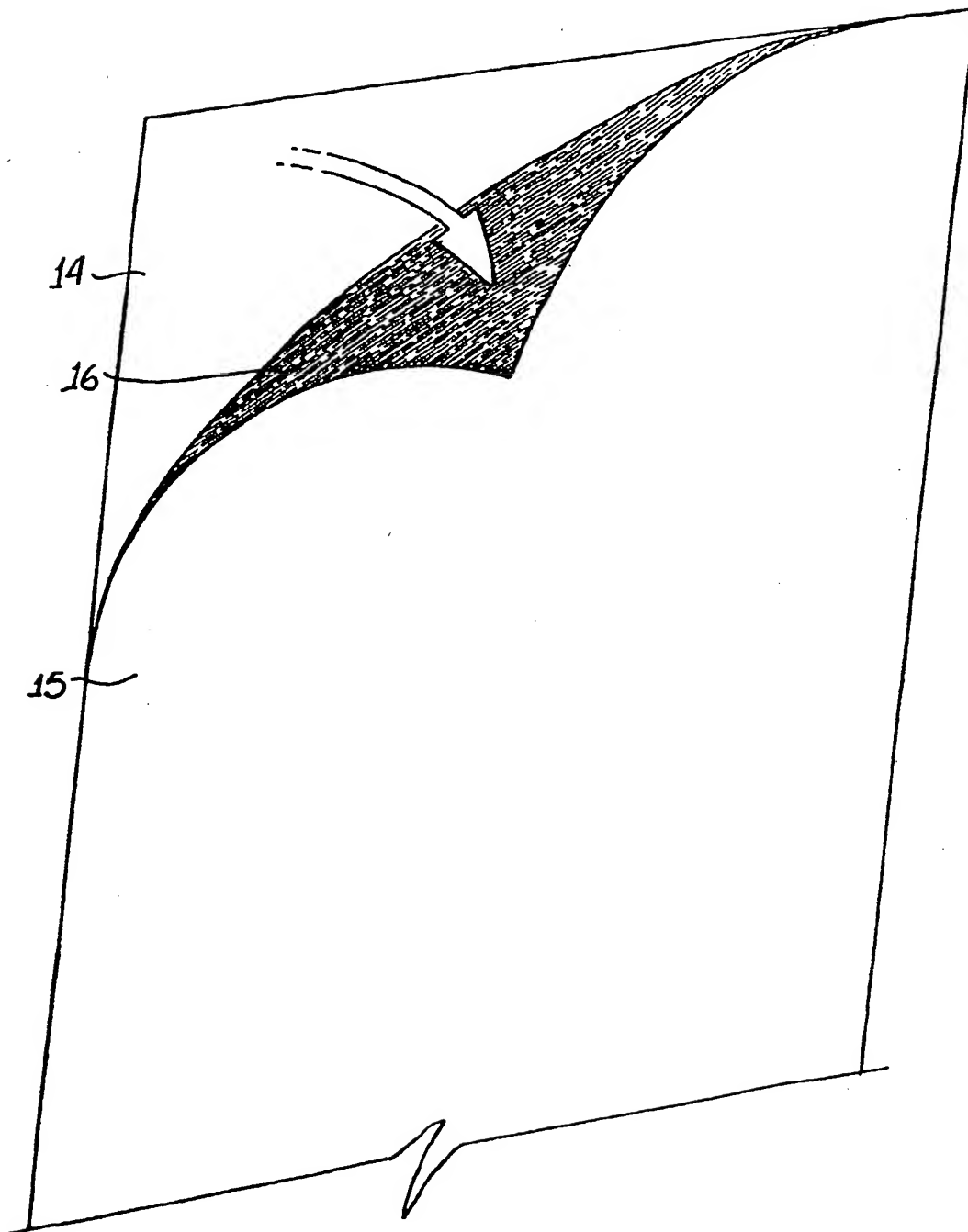


FIG. 5



(19)



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(54) Sheets with adhesive system for electronic printing

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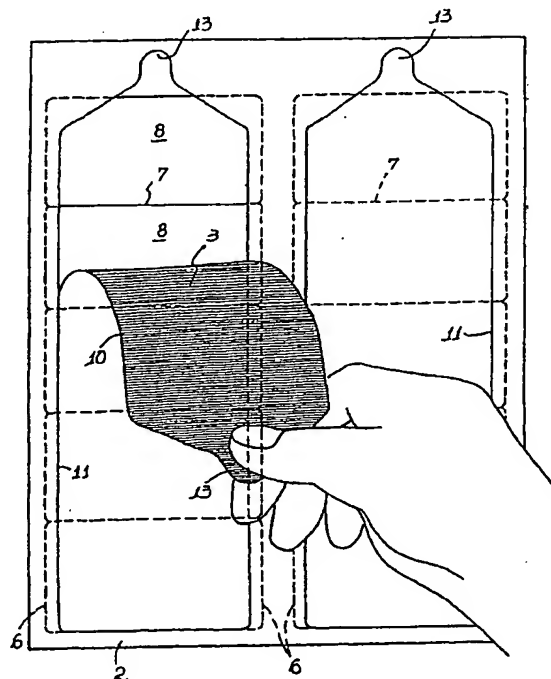


FIG. 3



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# EUROPEAN SEARCH REPORT

Application Number  
EP 00 50 0206

DOCUMENTS CONSIDERED TO BE RELEVANT			
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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G03B G09F B42D
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		13 August 2003	Romeo, V
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

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# ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 50 0206

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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